

**Title of Instructional Materials:** Holt, McDougal Algebra II

**Grade Level:** Algebra II

Summary of Holt, McDougal Algebra II

<p><b>Overall Rating:</b> <input type="checkbox"/> Weak (1-2)</p> <p><input type="checkbox"/> Moderate (2-3)</p> <p><input checked="" type="checkbox"/> Strong (3-4)</p> <p><b>Summary / Justification / Evidence:</b> Lacking a little in depth of understanding and only skimmed on a few of the standards</p>	<p><b>Important Mathematical Ideas:</b> <input type="checkbox"/> Weak (1-2)</p> <p><input type="checkbox"/> Moderate (2-3)</p> <p><input checked="" type="checkbox"/> Strong (3-4)</p> <p><b>Summary / Justification / Evidence:</b> Real-world connections of mathematical ideas are not completely embedded in the text</p>
<p><b>Skills and Procedures:</b> <input type="checkbox"/> Weak (1-2)</p> <p><input type="checkbox"/> Moderate (2-3)</p> <p><input checked="" type="checkbox"/> Strong (3-4)</p> <p><b>Summary / Justification / Evidence:</b> Generally good, but some skills were not well connected</p>	<p><b>Mathematical Relationships:</b> <input type="checkbox"/> Weak (1-2)</p> <p><input type="checkbox"/> Moderate (2-3)</p> <p><input checked="" type="checkbox"/> Strong (3-4)</p> <p><b>Summary / Justification / Evidence:</b> Adequate connections integrated and made outside of mathematics</p>

<b>1. Make sense of problems and persevere in solving them.</b> Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.	
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> Ch. 5-8	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b> not well connected to real-world
<b>Summary / Justification / Evidence:</b> Through the "think and discuss", problem solving strategies and end of example "check"s students are led to persevere	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>2. Reason abstractly and quantitatively.</b>	
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to <i>decontextualize</i> —to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to <i>contextualize</i> , to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.	
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> Chapters 5-8	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>
<b>Summary / Justification / Evidence:</b>	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

### 3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**  
ch. 2, 5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**

**Summary / Justification / Evidence:**

**Overall Rating:**

☐1   ☐2   ☐3   ☒4

#### 4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**

ch.2, 5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**

**Summary / Justification / Evidence:**

**Overall Rating:**

☐1☐2☐3☒4

**5. Use appropriate tools strategically.**

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**  
ch.5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**

**Summary / Justification / Evidence:**

**Overall Rating:**

☐ 1☐ 2☐ 3☒ 4

**6. Attend to precision.**

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**

ch.5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):****Summary / Justification / Evidence:****Overall Rating:**☐1☐2☒3☐4



**7. Look for and make use of structure.**

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see  $7 \times 8$  equals the well-remembered  $7 \times 5 + 7 \times 3$ , in preparation for learning about the distributive property. In the expression  $x^2 + 9x + 14$ , older students can see the 14 as  $2 \times 7$  and the 9 as  $2 + 7$ . They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see  $5 - 3(x - y)^2$  as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers  $x$  and  $y$ .

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**

ch.5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):****Summary / Justification / Evidence:****Overall Rating:**☐1   ☐2   ☒3   ☐4

**8. Look for and express regularity in repeated reasoning.**

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation  $(y - 2)/(x - 1) = 3$ . Noticing the regularity in the way terms cancel when expanding  $(x - 1)(x + 1)$ ,  $(x - 1)(x^2 + x + 1)$ , and  $(x - 1)(x^3 + x^2 + x + 1)$  might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

**Indicate the chapter(s), section(s), and/or page(s) reviewed:**  
ch.5-8

**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**

**Summary / Justification / Evidence:**

**Overall Rating:** ☐1 ☐2 ☒3 ☐4

<b>Domain:</b> <i>The Complex Number System</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>N.CN.1</b>  Know there is a complex number $i$ such that $i^2 = -1$ , and every complex number has the form $a + bi$ with $a$ and $b$ real.	Important Mathematical Ideas: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4  Skills and Procedures: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4  Mathematical Relationships: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 5.5	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>The Complex Number System</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>N.CN.2</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 5.9	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>The Complex Number System</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>N.CN.7</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input type="checkbox"/>2    <input type="checkbox"/>3    <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input type="checkbox"/>2    <input type="checkbox"/>3    <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 5.5-5.6, 6.6	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>The Complex Number System</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>N.CN.8(+)</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> not well developed and only could find one example
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.6	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>The Complex Number System</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>N.CN.9(+)</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.6	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Seeing Structure in Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.SSE.1a</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> could not find rational expressions
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 27, 331, 490-496, section 6.1	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4



<b>Domain:</b> <i>Seeing Structure in Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.SSE.1b</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> could not find rational expressions
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 27, 331, 490-496, section 6.2	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Seeing Structure in Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.SSE.2</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> skill driven
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 27-32, 430-435, section 5.3	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Seeing Structure in Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.SSE.4</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 893-897, 914-916	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.1</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> closure in the student supplement only
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 406-420, 474-483, 563-565	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.2</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 422-435, 445-451	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.3</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input checked="" type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> not much on graphing by hand and not well developed
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.4-6.7, p. 457	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.4</b>	<p>Important Mathematical Ideas:    <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input checked="" type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input checked="" type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> no proving of identities
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.2-6.4	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.5(+)</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input checked="" type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> only states the binomial expansion and does not develop it
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.2, 11.6	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4



<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.6</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:         <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> not developed with graphing calculators in mind
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> sect. 6.3, 8.2-8.4	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Arithmetic with Polynomials and Rational Expressions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.APR.7(+)</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> only found in the supplement, closure is in the supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC1-CC4, p. 577-590, 642-643	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Creating Equations</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.CED.1</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 94-103, 150-156, 600-607, 333-373, 438-528, 522	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Creating Equations</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.CED.2</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input type="checkbox"/>3    <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input type="checkbox"/>2    <input type="checkbox"/>3    <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input type="checkbox"/>2    <input type="checkbox"/>3    <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> embedded throughout the book
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch. 1-8	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Creating Equations</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.CED.3</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> embedded throughout the text
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch.1-8	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Creating Equations</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.CED.4</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 689	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Reasoning with Equations and Inequalities</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.REI.2</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 600-609, 628-649	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Reasoning with Equations and Inequalities</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>A.REI.11</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> mostly found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC6-CC9, p. 438-442, 447-448, 524-525	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4



<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.4</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> Ch. 6-8	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.5</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch.1, 5, 7, 8, 9, 11	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.6</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> mostly in student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC10-CC17, p. 105-123	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.7b</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 158, 620-621, 662, 666	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.7c</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 409, 438, 452	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.7e</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> doesn't develop end behavior and critical points well
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 490, 507-511, 531, 590	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.8a</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 323, 334, 343	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.8b</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 490-496	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4



<b>Domain:</b> <i>Interpreting Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.IF.9</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> only covered in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC10-CC17	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Building Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.BF.1b</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch. 2, 5, 6, 7	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Building Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.BF.3</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch. 1,2,5-8	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Building Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.BF.4a</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch.7, 9	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Linear, Quadratic, and Exponential Models</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.LE.4</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> ch.7	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Trigonometric Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.TF.1</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 943-949	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Trigonometric Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.TF.2</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 936-938, 942-945	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Trigonometric Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.TF.5</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> midline is missing
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 992-1003	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4



<b>Domain:</b> <i>Trigonometric Functions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>F.TF.8</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input type="checkbox"/>2    <input checked="" type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> 1008-1013	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Interpreting Categorical and Quantitative Data</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.ID.4</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1    <input checked="" type="checkbox"/>2    <input type="checkbox"/>3    <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> no spreadsheet reference for area under a curve
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC60-CC61, p. 846-847	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.1</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> referenced only in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC27-CC34	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.2</b>	<p>Important Mathematical Ideas:     <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input checked="" type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Not developed at all. Only one example
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> p. 817 example 31	<b>Overall Rating:</b> <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.3</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC35-CC42	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.4</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC51-CC58	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.5</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC43-CC50	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

<b>Domain:</b> <i>Making Inferences and Justifying Conclusions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.IC.6</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input checked="" type="checkbox"/>3   <input type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC52-CC58	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4



<b>Domain:</b> <i>Using Probability to Make Decisions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.MD.6(+)</b>	<p>Important Mathematical Ideas:    <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC27-CC34	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

<b>Domain:</b> <i>Using Probability to Make Decisions</i>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>Standard:</b>  <b>S.MD.7(+)</b>	<p>Important Mathematical Ideas:     <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Skills and Procedures:                <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p> <p>Mathematical Relationships:        <input type="checkbox"/>1   <input type="checkbox"/>2   <input type="checkbox"/>3   <input checked="" type="checkbox"/>4</p>
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>	<b>Summary / Justification / Evidence:</b> Only found in the student supplement
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed:</b> CC27-CC34, CC68-CC75	<b>Overall Rating:</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Wolt McDougall

## Documenting Alignment to the Standards for Mathematical Practice

### 1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Needs to be more problem solving questions  
p 308: ex 1 Analyze - no constraints or figures  
no help for the solution

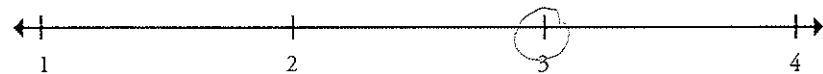
Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

wish they had more word problems

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## Documenting Alignment to the Standards for Mathematical Practice

### 2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

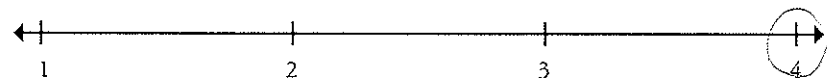
p 364

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

*Mc Dougal*

## Documenting Alignment to the Standards for Mathematical Practice

### 3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

*p 177: 8.3 - use the table to make predictions*

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## Documenting Alignment to the Standards for Mathematical Practice

### 4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

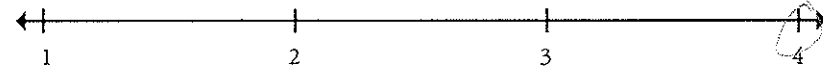
p 176: ex 1: apply the math to solve a problem  
ex 3: Graph the function or write an equation to solve the problem

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

*Mr. Dougal*

## Documenting Alignment to the Standards for Mathematical Practice

### 5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

*p364: 9N1-5 can use GC to solve  
given a model / equation*

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## Documenting Alignment to the Standards for Mathematical Practice

### 6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

p 308 ex 1  
p 309 ex 3 - units of measure  
p 245: Read + Interpret math symbols

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating





Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

*McDougal*

## Documenting Alignment to the Standards for Mathematical Practice

### 7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see  $7 \times 8$  equals the well remembered  $7 \times 5 + 7 \times 3$ , in preparation for learning about the distributive property. In the expression  $x^2 + 9x + 14$ , older students can see the 14 as  $2 \times 7$  and the 9 as  $2 + 7$ . They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see  $5 - 3(x - y)^2$  as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers  $x$  and  $y$ .

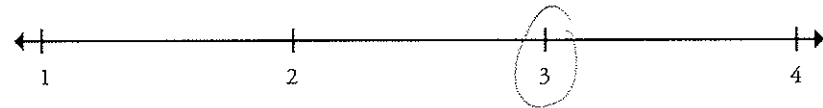
*p308: ex 2 look for a pattern*

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## Documenting Alignment to the Standards for Mathematical Practice

### 8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation  $(y - 2)/(x - 1) = 3$ . Noticing the regularity in the way terms cancel when expanding  $(x - 1)(x + 1)$ ,  $(x - 1)(x^2 + x + 1)$ , and  $(x - 1)(x^3 + x^2 + x + 1)$  might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

p 581: #43  
p 589: #46

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

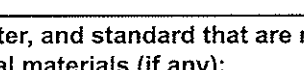
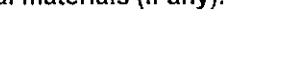


Overall Rating



---

: McDougal

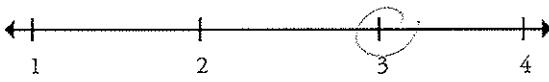
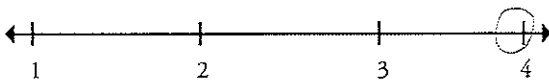

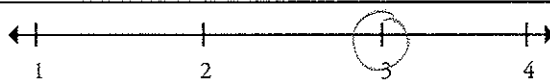
## The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	<p><b>N-CN.1</b></p> <p>Know there is a complex number <math>i</math> such that <math>i^2 = -1</math>, and every complex number has the form <math>a + bi</math> with <math>a</math> and <math>b</math> real.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>used to describe zeros of quadratic functions ex 4</p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Always, sometimes &amp; never true questions p 354</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>	<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Sec 5.5 : p 350-351</p>	Overall Rating 
---	---	--	---	--

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

**ALGEBRA II — NUMBER AND QUANTITY (N)**  
**The Complex Number System (N-CN)**

<p><b>Perform arithmetic operations with complex numbers.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>N-CN.2</b>          Use the relation <math>i^2 = -1</math> and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.          Note: <math>i^n</math> as highest power of <math>i</math>.</p> <p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p><i>Sec 5-9: p 384-387</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><i>Fractals</i></p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><i>Ex 4, 5, 6</i></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Title of Instructional Materials: McDougal

### The Complex Number System (N-CN)

**Figure S1**

McDargall

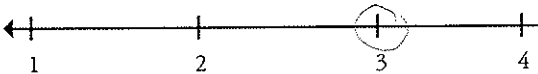
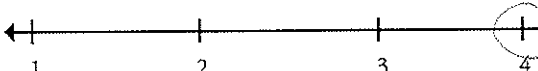


### The Complex Number System (N-CN)

A horizontal number line with arrows at both ends. It has tick marks labeled 1, 2, 3, and 4. The number 2 is circled.

.....k.....

McDonnell

### The Complex Number System ( $\mathbb{N}-\mathbb{CN}$ )

<p><b>Use complex numbers in polynomial identities and equations.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>N-CN.9</b></p> <p>(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.</p> <p>Note: Polynomials with real coefficients.</p>       <p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p>sec 6.6: p 445-451, 477, 478</p>	<p><b>Important Mathematical Ideas</b> </p> <p><i>ex 4</i></p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p>p 446: Fund Thm of Alg</p>
	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p>More word problems?</p> <p><b>Overall Rating</b> </p>

\*\*\*\*\*

McDougal

## Seeing Structure in Expressions (A-SSE)

p 27, 331, 490-496

↓	↓
linear	exponential
growth	growth
expressions	

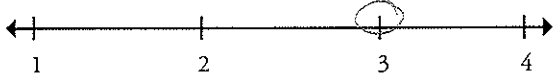
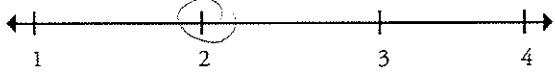
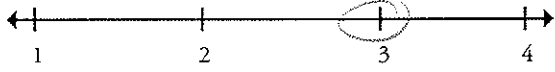
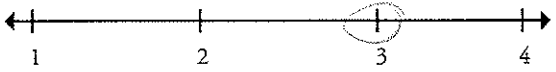


Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — ALGEBRA (A)

### Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>A-SSE.1b</b></p> <p>1. Interpret expressions that represent a quantity in terms of its context.*</p> <p>b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret <math>P(1+r)^n</math> as the product of <math>P</math> and a factor not depending on <math>P</math>.</p> <p>Note: Polynomial and rational.</p> <p style="text-align: center;">↓ Difficult to find this standard</p> <p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p style="text-align: center;">p 27, 331, 490-496 ↓ factor</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p style="text-align: center;">p 331 ?</p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p style="text-align: center;">Rational expressions</p> <p><b>Overall Rating</b> </p>

McDougal

## Seeing Structure in Expressions (A-SSE)

**Interpret the structure of expressions.**

## A-SSE.2

Use the structure of an expression to identify ways to rewrite it. For example, see  $x^4 - y^4$  as  $(x^2)^2 - (y^2)^2$ , thus recognizing it as a difference of squares that can be factored as  $(x^2 - y^2)(x^2 + y^2)$ .

Note: Polynomial and rational.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

p 27-32, 331, 397, 430-433 ← *Factor polygon ab*  
 SAT — *p 475*  
 tes  
 pro  
 sec 5.3 diff to 5<sup>th</sup>

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



A horizontal number line with arrows at both ends. There are four tick marks labeled 1, 2, 3, and 4 from left to right. A circle is drawn around the tick mark for 2.

Skills and Procedures



A horizontal number line with arrows at both ends. It has four tick marks labeled 1, 2, 3, and 4 from left to right. A circle is drawn around the tick mark for the number 2.

Mathematical Relationships




A horizontal number line with arrows at both ends. It has tick marks labeled 1, 2, 3, and 4. The number 2 is circled.

### Summary / Justification / Evidence

Sum or difference of cubes  
factor by grouping

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



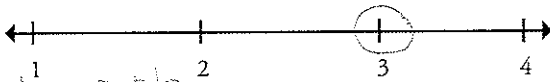
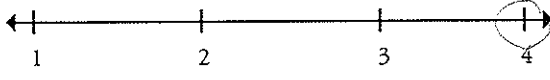

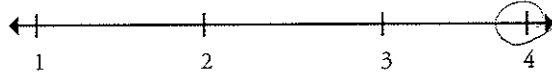
A horizontal number line with arrows at both ends. It has four tick marks labeled 1, 2, 3, and 4 from left to right. A circle is drawn around the number 2.

---

McDougal

## ALGEBRA II — ALGEBRA (A)

## Seeing Structure in Expressions (A-SSE)

<p>Write expressions in equivalent forms to solve problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>A-SSE.4</b></p> <p>Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. <i>For example, calculate mortgage payments.*</i></p> <p style="text-align: center;">↓ rent problem p 897 #52</p>	<p>Important Mathematical Ideas </p> <p style="margin-left: 100px;">p 894: EX - Sports problem</p> <p>Skills and Procedures </p> <p style="text-align: center;">:</p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p style="margin-left: 100px;">p 893: Derive formula for geo series</p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p style="margin-left: 40px;">p 894 - 897, 914, 916 p 893</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>    <p>Overall Rating </p>

[illegible]

McDougal

### Arithmetic with Polynomials and Rational Expressions (A-APR)

Found on p CC 1-3  
Exercises are weak

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — ALGEBRA (A)

### Arithmetic with Polynomials and Rational Expressions (A-APR)

Understand the relationship between zeros and factors of polynomials.

#### A-APR.2

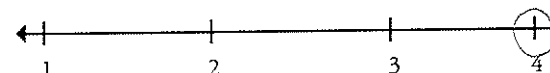
Know and apply the Remainder Theorem: For a polynomial  $p(x)$  and a number  $a$ , the remainder on division by  $x - a$  is  $p(a)$ , so  $p(a) = 0$  if and only if  $(x - a)$  is a factor of  $p(x)$ .

Indicate the chapter(s), section(s), and/or page(s) reviewed.

p 422-435, 445-451  
476, 478

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



*used to factor polynomials*

Skills and Procedures



Mathematical Relationships



Summary / Justification / Evidence

*p 424: Remainder Thm  
Ex 3 p 424*

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating




Walt McDougal

## Arithmetic with Polynomials and Rational Expressions (A-APR)


**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**

Important Mathematical Ideas 

Important Mathematical Ideas 

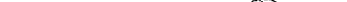
Connects to factoring

Skills and Procedures



only 4 problems on p 457

Mathematical Relationships




A horizontal number line with arrows at both ends. It has tick marks labeled 1, 2, 3, and 4. A circle is drawn around the number 2.

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating	4	5	1	1
----------------	---	---	---	---

Overall Rating



A horizontal number line with arrows at both ends. It has four tick marks labeled 1, 2, 3, and 4 from left to right. A circle is drawn around the tick mark for the number 2.

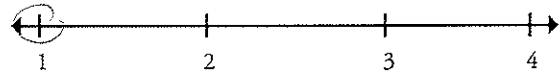
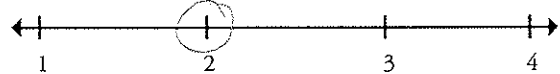
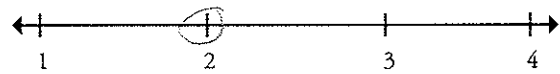
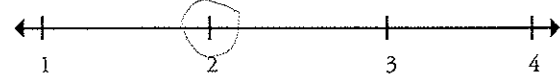
Sec 6.4: 432-5, 437-444, 457-59  
+ 6.7

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Holt McDougal

## ALGEBRA II — ALGEBRA (A)

### Arithmetic with Polynomials and Rational Expressions (A-APR)

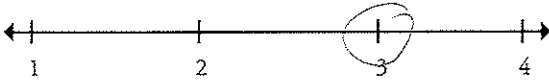


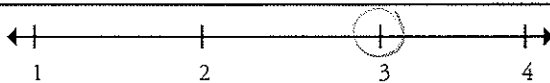
<p>Use polynomial identities to solve problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>A-APR.4</b></p> <p>Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity <math>(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2</math> can be used to generate Pythagorean triples.</p> <p>I don't see any proving of polynomial identities in these pages but they can be derived from pascal's A &amp; the binomial expansion.</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Sec 6.2 p 414-17, 430-435 6.4</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Pascal's A &amp; binomial expansion</p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Holt McDougal

**ALGEBRA II — ALGEBRA (A)**

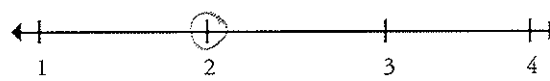
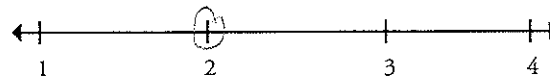
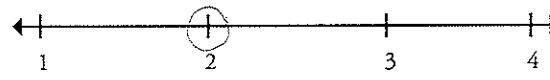

**Arithmetic with Polynomials and Rational Expressions (A-APR)**

<p>Use polynomial identities to solve problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>A-APR.5</b></p> <p>(+) Know and apply the Binomial Theorem for the expansion of <math>(x + y)^n</math> in powers of <math>x</math> and <math>y</math> for a positive integer <math>n</math>, where <math>x</math> and <math>y</math> are any numbers, with coefficients determined for example by Pascal's Triangle.<sup>1</sup></p> <p><small>1 The Binomial Theorem can be proved by mathematical induction or by a combinatorial argument.</small></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Sec 11-6: 837-840</p> <p>6-2 p413-420,</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures   <i>Doesn't break down the proof of any of using combinations</i></p> <p>Mathematical Relationships   <i>Tied to A-APR-4</i></p> <p><b>Summary / Justification / Evidence</b>  <i>many good word problems</i></p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>



Nolt McCougal

## Arithmetic with Polynomials and Rational Expressions (A-APR)

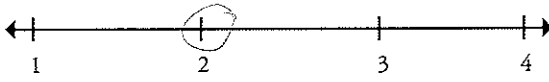

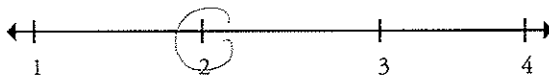
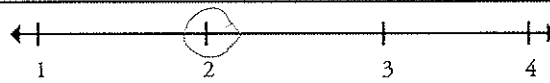
<b>Rewrite rational expressions.</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>A-APR.6</b> Rewrite simple rational expressions in different forms; write $a(x)/b(x)$ in the form $q(x) + r(x)/b(x)$ , where $a(x)$ , $b(x)$ , $q(x)$ , and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$ , using inspection, long division, or, for the more complicated examples, a computer algebra system.  Note: Linear and quadratic denominators. ✓	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.  <i>Sec 6.3 p 422-428</i>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p><i>Graphing Cal ?</i></p>
	<p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

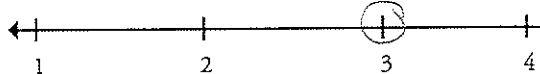
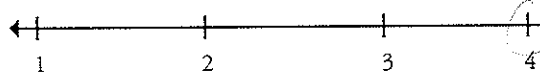
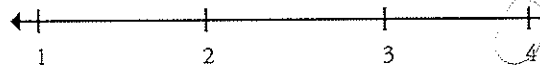

## ALGEBRA II — ALGEBRA (A)

### Arithmetic with Polynomials and Rational Expressions (A-APR)

<p><b>Rewrite rational expressions.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>A-APR.7</b></p> <p>(+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.</p> <p>Note: Linear and quadratic denominators.</p> <p><i>This is shown using variables, but not much with concrete examples (cc3ex1a2)</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p>
<p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p><i>p 577-590, 609, 639 642-3, 787</i></p> <p><i>cc 1-cc4</i></p>	<p><b>Summary / Justification / Evidence</b></p> <p><i>cc1-cc4: #2</i></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

McDougal

### Creating Equations (A-CED)

<p><b>Create equations that describe numbers or relationships.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>A-CED.1</b></p> <p>Create equations and inequalities in one variable and use them to solve problems. <i>Include equations arising from linear and quadratic functions, and simple rational and exponential functions.*</i></p> <p>Note: Equations using all available types of expressions, including simple root functions.</p> <p style="text-align: center;">↓ p351</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p>p94-103 - Linear, p333-373 - Quadratic  p150-156 - Absolute Value, p438-528 - Polynomial  p600-607 - Rational Eq, p522 - Exponential</p>
<p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p>p 94-103</p>	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

---

McDonald

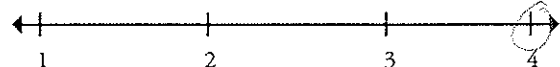
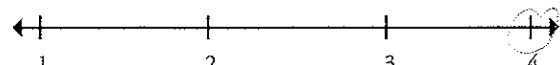

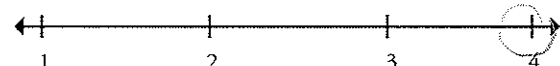
### Creating Equations (A-CED)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: mcDougal

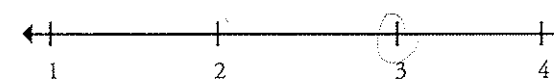
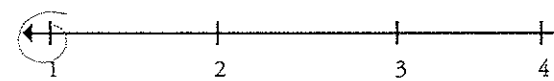


## ALGEBRA II — ALGEBRA (A)

### Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>A-CED.3</b></p> <p>Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. <i>For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.*</i></p> <p>Note: Equations using all available types of expressions, including simple root functions.</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary / Justification / Evidence</b></p> <p>p 210: #23 Uniform Problem (Linear programming)</p> <p>p 234: First example - cube problem</p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>
<p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p>p 51-57, 105-149, 158-163, 182-226</p> <p>270-293, 315-330, 366-381,</p> <p>406-412, 453-471, 490-511, 531-551</p> <p>569-576, 592-599, 662-669, 682-705</p>	

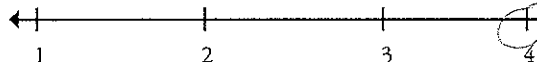
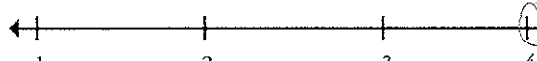
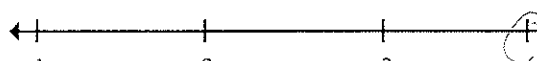

Title of Instructional Materials: McDougal

### Creating Equations (A-CED)

<p>Create equations that describe numbers or relationships.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>A-CED.4</b></p> <p>Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. <i>For example, rearrange Ohm's law <math>V = IR</math> to highlight resistance <math>R</math>.</i></p> <p>Note: Equations using all available types of expressions, including simple root functions.</p> <p style="text-align: right;">1 pages</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p style="text-align: center;">only 4 problems</p> <p>Mathematical Relationships </p> <p style="text-align: center;">Tried to graph examples</p> <p>Summary / Justification / Evidence</p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>p 689 - Use Volume 900 Area problems - solve these for a single variable</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

Title of Instructional Materials: McDougal

## Reasoning with Equations and Inequalities (A-REI)

Understand solving equations as a process of reasoning and explain the reasoning.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p>A-REI.2</p> <p>Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.</p> <p>Note: Simple radical and rational.</p>       <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>p 600-609, 628-647 -</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures  :</p> <p>Mathematical Relationships </p> <p>Many word problems</p> <p>Summary / Justification / Evidence</p> <p>p 600 - Ex 1 &amp; 2 (rational eq)      p 628 - solving radical eq</p> <p>Extraneous solution</p>
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 

McDougal

### Reasoning with Equations and Inequalities (A-REI)

Indicate the chapter(s), section(s), and/or page(s) reviewed.

p 157, 335-336, 438-442  
447-448, 524-525  
603-604

CC6-CC9


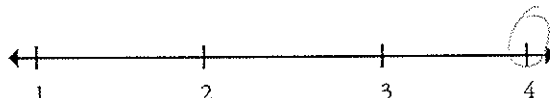
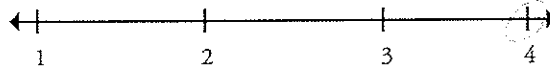



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

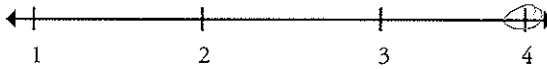
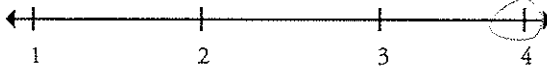

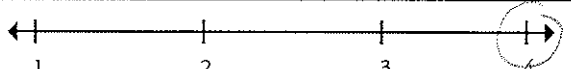
## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.4</b></p> <p>For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. <i>Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*</i></p> <p>Note: Include rational, square root and cube root; emphasize selection of appropriate models.</p> <p><i>Rational - p592</i>  <i>sq root - p621 &amp; 223</i>  <i>cube root - p620 &amp; 7B</i>  <i>polynomial - p453</i>  <i>logarithmic - p537</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p44-66, 106-123, 133-140, 158-163</i>  <i>315-340, 437-444, 453-465, 492-496</i>  <i>531-544, 569-576, 592-599,</i>  <i>619-627, 654-679,</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

McDougal

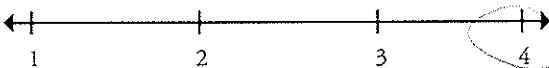
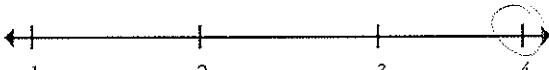
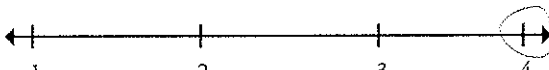

### Interpreting Functions (F-IF)

<p><b>Interpret functions that arise in applications in terms of the context.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>F-IF.5</b></p> <p>Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. <i>For example, if the function <math>h(n)</math> gives the number of person-hours it takes to assemble <math>n</math> engines in a factory, then the positive integers would be an appropriate domain for the function.*</i></p> <p>Note: Emphasize selection of appropriate models.</p>       <p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p>p 91-73, 326-329, 482, 496-503</p> <p>541-544, 619-627,</p> <p>636-642, 693-694,</p> <p>707-712, 990-997</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b>  ⋮</p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p>
	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p>
	<p><b>Overall Rating</b> </p>

A horizontal number line with tick marks every 10 units from 0 to 100. The number 50 is marked in the center. To the left of 50, the number 40 is marked, and the interval between 40 and 50 is labeled 'd'. To the right of 50, the number 60 is marked, and the interval between 50 and 60 is labeled 'm'.

McDougal

### Interpreting Functions (F-IF)


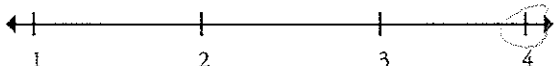
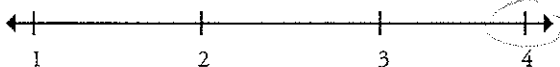
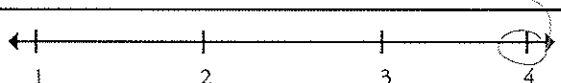
<b>Interpret functions that arise in applications in terms of the context.</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>F-IF.6</b> Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*  <i>Note: Emphasize selection of appropriate models.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary / Justification / Evidence</b>  <i>CC10-CC17 EX1 - Rate of Change of            2 Functions</i> </p>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b>  <i>p105-123, 168, 466-471</i> <i>696-661</i>  <i>CC10-CC17</i>	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p>
	<p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

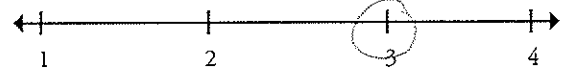
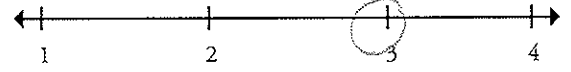
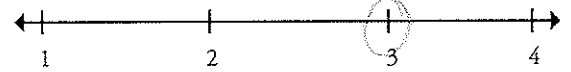

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.7b</b></p> <p>7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*</p> <p>b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.</p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>P158 - absolute value</i>  <i>P621 - sq root</i>  <i>P620 - cube root</i>  <i>P662 - piecewise</i>  <i>P666 - step functions</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>158-163, 619-627</i>  <i>662-671, 681-709,</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

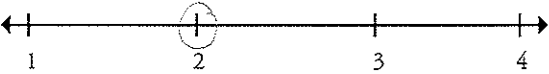
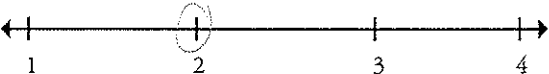

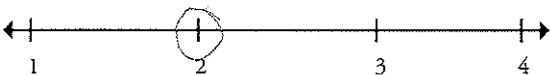
Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.7c</b></p> <p>7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*</p> <p>c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.</p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>p409 - Graphing Polynomial Functions using a GC</i>  <i>p438 - identifying the zeros by factoring</i>  <i>p452 - end behavior</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 409-412, 438-444,</i>  <i>452-465, 472, 476-477</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b>   <i>on 6 functions to graph</i></p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><i>ex 3 - clearly explains all steps of problems with integer coefficients</i></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

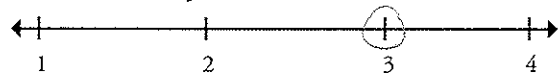

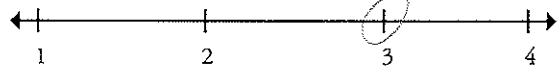
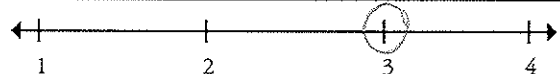
<p>Analyze functions using different representations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>F-IF.7e</b></p> <p>7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*</p> <p>e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.</p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>p490 - exponential, ex1 - uses a b.c.</i></p> <p><i>p507 - still graph using a table of values for <math>\log</math> &amp; <math>\log</math> is</i></p> <p><i>p531 - Graph with e &amp; ln</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p490-496, 507-511, 531-536</i></p> <p><i>p990-991, 998-1005</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary / Justification / Evidence</b></p> <p><i>p990 - trig showing period, amplitude.</i></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><i>Doesn't focus on showing intercepts &amp; end behavior. It's missing in (what key pts should be used).</i></p> <p><i>Don't see the term midline used.</i></p> <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

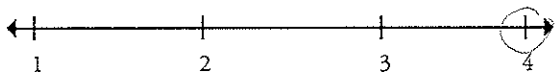
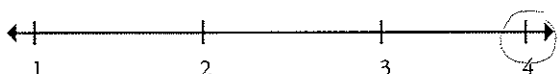
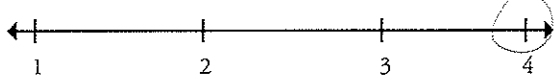

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.8a</b></p> <p>8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.</p> <p>a. Use the process of <u>factoring</u> and <u>completing the square</u> in a quadratic function to <u>show zeros</u>, <u>extreme values</u>, and <u>symmetry</u> of the graph, and interpret these in terms of a context.</p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>p 323 - Quad Func: axis of sym, vertex, y-int</i>  <i>p 334 - Finding Zeros by Factoring,</i>  <i>p 343 - Finding Zeros by Completing the sq</i>  <i>to put in vertex form</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 323-330, 333-48, 365, 787</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><i>Not sure if I find Factoring + Completing the sq + <sup>show</sup> extreme values + symmetry?</i></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.8b</b></p> <p>8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.</p> <p>b. Use the properties of exponents to interpret expressions for exponential functions. <i>For example, identify percent rate of change in functions such as <math>y = (1.02)^t</math>, <math>y = (0.97)^t</math>, <math>y = (1.01)^{12t}</math>, <math>y = (1.2)^{t/10}</math>, and classify them as representing exponential growth or decay.</i></p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>p491; Ex1 Tell whether the function shows growth or decay</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p490 - 496, 521, 558, 920</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p><i>many good work problems including interest rate problems</i></p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

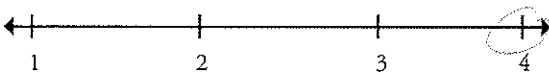
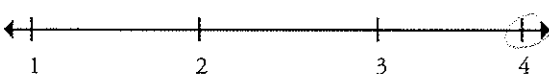
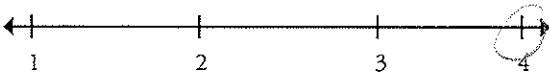
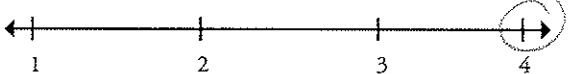


Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — FUNCTIONS (F)

### Interpreting Functions (F-IF)

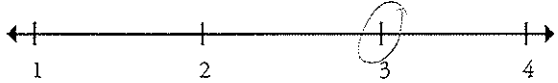
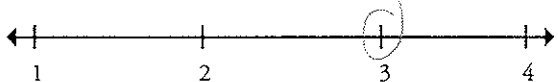
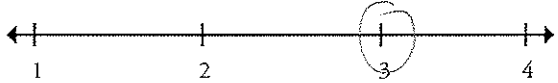
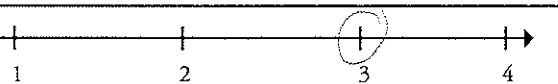
Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-IF.9</b></p> <p>Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.</p> <p>Note: Focus on using key features to guide selection of appropriate type of model function.</p> <p><i>Comparing properties using a graph &amp; a table</i></p> <p><i>Finding the rate of change</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>CC10 - CC17</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — FUNCTIONS (F)

### Building Functions (F-BF)

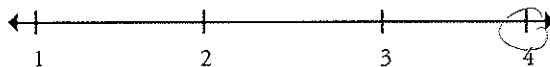
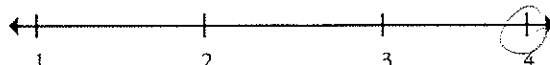
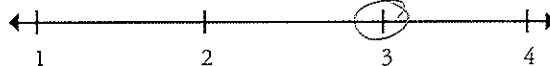
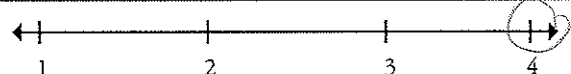
<p><b>Build a function that models a relationship between two quantities.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>F-BF.1b</b></p> <p>1. Write a function that describes a relationship between two quantities.*</p> <p>b. Combine standard function types using arithmetic operations. <i>For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.</i></p> <p>Note: Include all types of functions studied.</p> <p>p142-149 - linear models (scatter plots)</p> <p>p374-381 - curve/quadratic models</p> <p>p414-419 - multiplying poly</p> <p>p429-432 - long &amp; synthetic division</p> <p>p462-479 - polynomial (p466) curve model</p> <p>p549-551 - Exp &amp; log models</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>p669 - 669 - piecewise models</p> <p>p674-679 - models (Card on composition)</p> <p>p698 - Real World Data modeling</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — FUNCTIONS (F)

### Building Functions (F-BF)

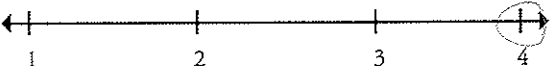


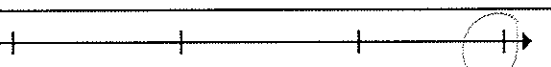
Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-BF.3</b></p> <p>Identify the effect on the graph of replacing <math>f(x)</math> by <math>f(x) + k</math>, <math>k f(x)</math>, <math>f(kx)</math>, and <math>f(x + k)</math> for specific values of <math>k</math> (both positive and negative); find the value of <math>k</math> given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. <i>Include recognizing even and odd functions from their graphs and algebraic expressions for them.</i></p> <p>Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.</p> <p><i>p 67: Transformations of Common Functions</i>  <i>p 158: Absolute value</i>  <i>p 315 - Quad Functions</i>  <i>p 460 - polynomial</i>  <i>p 537 - Exp &amp; Log Functions</i>  <i>p 620 - radical Functions</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 59-84, p 134-140, 158-175, 315-322</i>  <i>460-469, 537-544, 620-627</i>  <i>p 672-679 - piecewise functions</i>  <i>p 592 - graphing rational functions</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mc Dougal

## ALGEBRA II — FUNCTIONS (F)

### Building Functions (F-BF)

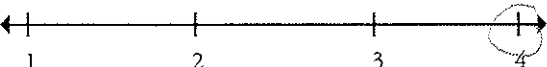
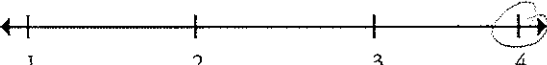
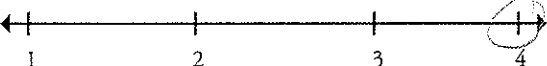

<p><b>Build new functions from existing functions.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>F-BF.4a</b></p> <p>4. Find inverse functions.</p> <p>a. Solve an equation of the form <math>f(x) = c</math> for a simple function <math>f</math> that has an inverse and write an expression for the inverse. <i>For example, <math>f(x) = 2x^3</math> or <math>f(x) = (x+1)/(x-1)</math> for <math>x \neq 1</math>.</i></p> <p>Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.</p> <p><i>p497 - explore inverse function</i>  <i>p501 - simple inverse function (linear)</i>  <i>p505-509 - exponential inverse</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p497-511, 690-696 - quadratic, rational, radical types</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Douglass

## ALGEBRA II — FUNCTIONS (F)

### Linear, Quadratic, and Exponential Models (F-LE)

Construct and compare linear, quadratic, and exponential models and solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-LE.4</b></p> <p>For exponential models, express as a logarithm the solution to <math>ab^{ct} = d</math> where <math>a</math>, <math>c</math>, and <math>d</math> are numbers and the base <math>b</math> is 2, 10, or <math>e</math>; evaluate the logarithm using technology.*</p> <p>Note: Logarithms as solutions for exponentials.</p> <p><i>p 505 - Log <math>\leftrightarrow</math> Exponentials</i>  <i>common log, base 2,</i>  <i>p 531 - log base e</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 505-511, 524-536</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

[illegible]

Mr. Pongal

### Trigonometric Functions (F-TF)

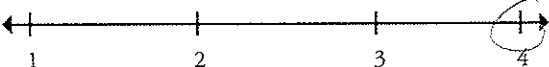
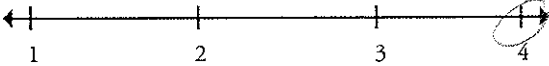
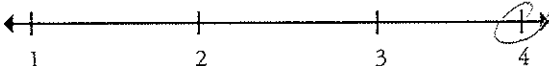

49

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

## ALGEBRA II — FUNCTIONS (F)

### Trigonometric Functions (F-TF)

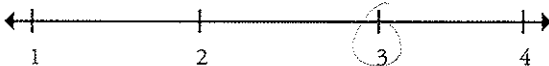

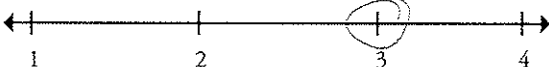
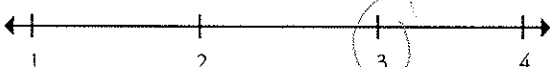
<p><b>Extend the domain of trigonometric functions using the unit circle.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>F-TF.2</b></p> <p>Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.</p> <p><i>p 936-938 Angles of Rotation (Degrees) reference angles 3 basic trig functions</i></p> <p><i>p 942-945 - unit circle (radian)</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

## ALGEBRA II — FUNCTIONS (F)

### Trigonometric Functions (F-TF)

Model periodic phenomena with trigonometric functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-TF.5</b></p> <p>Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.*</p> <p><i>p 992-996 - sine &amp; cosine graphs Amplitude &amp; period</i></p> <p><i>998-1003 - tangent &amp; cotangent asymptotes</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><i>midline?</i></p> <p><b>Overall Rating</b> </p>

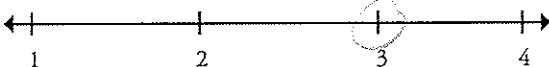
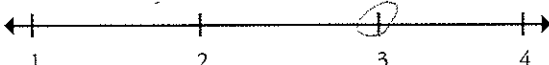
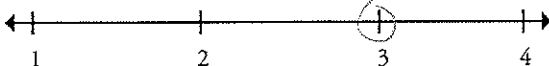



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

# ALGEBRA II — FUNCTIONS (F)

## Trigonometric Functions (F-TF)


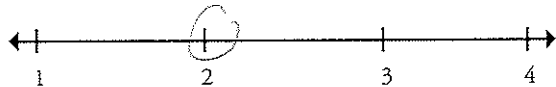
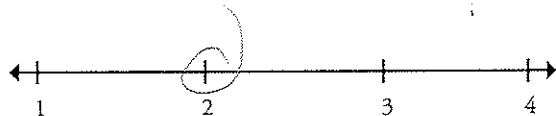

Prove and apply trigonometric identities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>F-TF.8</b></p> <p>Prove the Pythagorean identity <math>\sin^2(\theta) + \cos^2(\theta) = 1</math> and use it to find <math>\sin(\theta)</math>, <math>\cos(\theta)</math>, or <math>\tan(\theta)</math> given <math>\sin(\theta)</math>, <math>\cos(\theta)</math>, or <math>\tan(\theta)</math> and the <u>quadrant of the angle</u>.</p> <p><i>p 1008-1013 - Trig Identities (derived from pythagorean) Verify trig identities</i></p> <p><i>1037 } 1040 } review 1043 }</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><i>quadrant of the angle?</i></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Interpreting Categorical and Quantitative Data (S-ID)

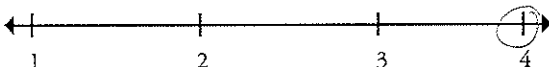
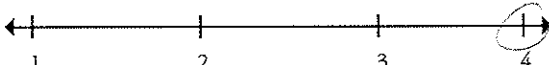
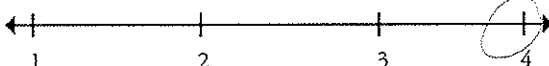

Summarize, represent, and interpret data on a single count or measurement variable.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-ID.4</b></p> <p>Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.</p> <p><i>CC62 - Determining whether data may be normally distributed</i></p> <p><i>CC61 - use tables to estimate the area</i></p> <p><b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b></p> <p><i>p 846-847 - normal distributions</i></p> <p><i>CC60 - 61</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><i>use calc, spreadsheets to estimate the area under the curve</i></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Dougal

**ALGEBRA II — STATISTICS AND PROBABILITY (S)**

**Making Inferences and Justifying Conclusions (S-IC)**

Understand and evaluate random processes underlying statistical experiments.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-IC.1</b> Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</p> <p><i>CC27-CC34 - biased samples, analyzing a survey, making predictions</i></p> <p><i>C29-#3,4</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

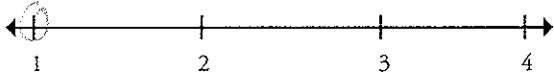
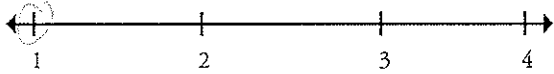
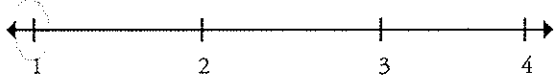

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

*McDougal*

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Making Inferences and Justifying Conclusions (S-IC)

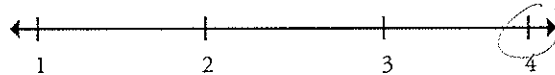

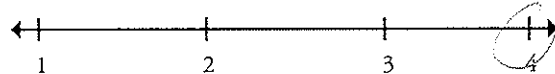
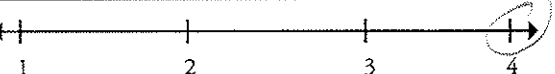
<p>Understand and evaluate random processes underlying statistical experiments.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>
<p><b>S-IC.2</b></p> <p>Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation. <i>For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?</i></p> <p><i>Ex 31</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 817</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p><i>only 1 example</i></p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Making Inferences and Justifying Conclusions (S-IC)

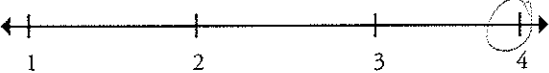
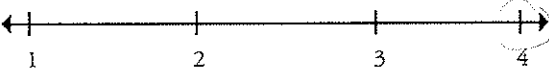

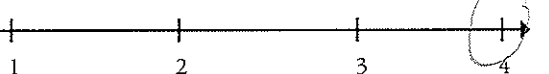
<p><b>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>S-IC.3</b></p> <p>Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.</p> <p><i>Ex1 - CC3S - differences among sample surveys, experiments, and observational studies</i></p> <p><i>Ex4 - randomization</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>CC3S - CC42</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Algebra II

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Making Inferences and Justifying Conclusions (S-IC)





Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-IC.4</b></p> <p>Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.</p> <p><i>Gx3: Margin of Error</i></p>          <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>CC51-CC58</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p>          <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>          <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Mr. Douglas

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Making Inferences and Justifying Conclusions (S-IC)


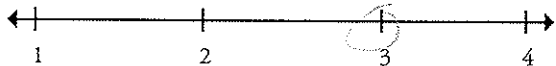

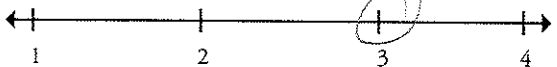
<p><b>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>S-IC.5</b> Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.</p> <p><i>Ex 1: Control Group Treatment Group</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>CC 43-CC 50</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

**ALGEBRA II — STATISTICS AND PROBABILITY (S)**

**Making Inferences and Justifying Conclusions (S-IC)**

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-IC.6</b></p> <p>Evaluate reports based on data.</p> <p>CC5342, ex 3</p> <p>CC 51 - CC 58</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

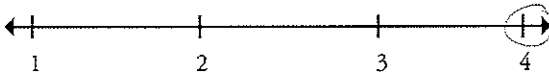
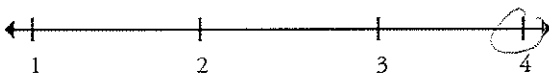
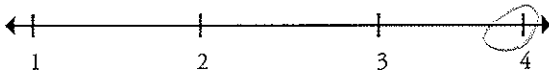



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: McDougal

# **ALGEBRA II — STATISTICS AND PROBABILITY (S)**

## **Using Probability to Make Decisions (S-MD)**




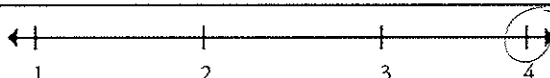
Use probability to evaluate outcomes of decisions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-MD.6</b></p> <p>(+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).</p> <p>Note: Include more complex situations.</p> <p><i>Biased samples are discussed</i> <i>Examples are given</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>CC 27 - CC 34</i></p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Math 1.1

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p><b>S-MD.7</b></p> <p>(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).</p> <p>Note: Include more complex situations.</p> <p><i>CC68 - Analyze decisions using probability</i></p> <p><i>Ex 1</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><i>p 807-808, 816, 824, 826</i></p> <p><i>CC 27-34</i></p> <p><i>CC68-75</i></p>	<p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>

## Instructional Materials Analysis and Selection

Phase 3: Assessing Content Alignment to the  
Common Core State Standards for Mathematics

Traditional Pathway for High School: Algebra II



a project of  
The Charles A. Dana Center  
at the University of Texas at Austin

Frontmatter

### Instructional Materials Analysis and Selection Assessing Content Alignment to the Common Core State Standards for Mathematics

This tool provides educators with a structured way to make informed decisions when selecting mathematics instructional materials. In particular, it can help you become more knowledgeable about the Common Core State Standards for Mathematics so you can select instructional materials aligned with these standards. This resource can also be used with the Dana Center's larger 4-phase Instructional Materials Analysis and Selection toolset: Phase 1: Studying the Standards, Phase 2: Narrowing the Field of Instructional Materials, Phase 3: Assessing Subject-Area Content Alignment, and Phase 4: Assessing Vertical Alignment of Instructional Materials. The particular resource you hold is a phase 3 tool that has been customized for assessing the alignment of instructional materials with the alignment of instructional materials to Indiana's Academic Standards for Mathematics. Note that in 2009, the Dana Center developed a similar tool for Indiana educators to use in analyzing the

Copyright 2011, 2010, the Charles A. Dana Center at The University of Texas at Austin

Unless otherwise indicated, the materials found in this resource are the copyrighted property of the Charles A. Dana Center at The University of Texas at Austin (the University). No part of this resource shall be reproduced, stored in a retrieval system, or transmitted by any means—electronically, mechanically, or via photocopying, recording, or otherwise, including via methods yet to be invented—without express written permission from the University, except under the following conditions. The following excludes materials not exclusively owned by the Charles A. Dana Center at the University of Texas at Austin.

- 1) The Indiana Department of Education, as well as Indiana school districts, can, through June 30, 2011, copy and disseminate this resource to schools and districts within the state of Indiana, without obtaining further permission from the University, so long as the original copyright notice is retained.
- 2) Other organizations or individuals must obtain prior written permission from the University for the use of these materials, the terms of which may be set forth in a copyright license agreement, and which may include the payment of a licensing fee, or royalties, or both.

We use all funds generated through use of our materials to further our nonprofit educational mission. Please send permission requests or questions to us here:

Charles A. Dana Center  
The University of Texas at Austin  
1616 Guadalupe Street, Suite 3.206  
Austin, TX 78701-1222  
Fax: 512-232-1855  
dana-tsahop@utexas.utexas.edu  
www.utdancenter.org

The Dana Center and The University, as well as the authors and editors, assume no liability for any loss or damage resulting from the use of this resource. Any opinions, findings, conclusions, or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of The University of Texas at Austin. We have made extensive efforts to ensure the accuracy of the information in this resource, to provide proper acknowledgment of original sources, and to otherwise comply with copyright law. If you find an error or you believe we have failed to provide proper acknowledgment, please contact us at dana-tsahop@utexas.utexas.edu.

The copyright of the Common Core State Standards for Mathematics is held by the National Governors Association Center for Best Practices and the Council of Chief State School Officers. The use of the CCSS for Mathematics in this Instructional Materials Analysis tool is done under the CCSS Terms of Use, available at [www.corestandards.org/terms-of-use](http://www.corestandards.org/terms-of-use). For more detail, see *About the development of this resource*.

Per the Terms of Use, we include this notice, which applies to the Common Core State Standards in this document: © Copyright 2010, National Governors Association Center for Best Practices and Council of Chief State School Officers. All rights reserved.

Holt McDougal  
Alg II

## Instructional Materials Analysis and Selection Phase 3: Assessing Content Alignment to the Common Core State Standards for Mathematics

Summary Evaluation: Good ~~graph~~ visuals and explanations, generally speaking. At times text is too heavy with skill development and ~~has~~ not enough problem solving applications. This would be an OK middle of the road text with lots of supplemental material needed to meet CCSS.

A project of  
The Indiana Education Roundtable, The Indiana Department of Education,  
and  
The Charles A. Dana Center at The University of Texas at Austin  
2010-2011

Frontmatter

### About the development of this resource

This tool, *Instructional Materials Analysis and Selection: Assessing Content Alignment to the Common Core State Standards for Mathematics*, draws on the Dana Center's nearly 20 years of experience in strengthening education and has been used extensively in Texas and, increasingly, other states, to help local school districts and schools select instructional materials aligned with their standards. Development and production of the Instructional Materials Analysis toolset was supported by the Charles A. Dana Center.

This resource consists of a set of 15 individual grade-level / course documents that span kindergarten through the third year of high school mathematics. There is a document for each grade from kindergarten through 8, and six documents for high school mathematics (one each for the three courses in the traditional high school pathway Algebra I, Geometry, Algebra II, and one each for the three courses in the integrated high school pathway Mathematics I, Mathematics II, and Mathematics III).<sup>\*</sup> At the request of various states and other entities, the Dana Center has populated this *Instructional Materials Analysis and Selection* tool with standards from the Common Core State Standards for Mathematics for use by local districts in selecting instructional materials aligned with these standards.

Note that the copyright of the Common Core State Standards for Mathematics is held by the National Governors Association Center for Best Practices and the Council of Chief State School Officers (collectively, NGA Center/CCSSO). This use of the CCSS for Mathematics is done under the CCSS Terms of Use, available at [www.corestandards.org/terms-of-use](http://www.corestandards.org/terms-of-use). Specifically, this work is done under the Terms of Use "non-exclusive, royalty-free license to copy, publish, distribute, and display the Common Core State Standards for non-commercial purposes that support the Common Core State Standards Initiative." For a complete copy of the Common Core State Standards for Mathematics as well as the CCSS for Mathematics, Appendix A: Designing high school mathematics courses based on the Common Core State Standards, go to [www.corestandards.org/the-standards](http://www.corestandards.org/the-standards).

October 2010 release.

We welcome your comments and suggestions for improvements—please send to [dana-tsahop@utexas.utexas.edu](mailto:dana-tsahop@utexas.utexas.edu) or the address in the copyright section above.

### About the Charles A. Dana Center at The University of Texas at Austin

The Dana Center works to raise student achievement in K-16 mathematics and science, especially for historically underserved populations. We do so by providing direct service to school districts and institutions of higher education, to local, state, and national education leaders, and to agencies, nonprofits, and professional organizations concerned with strengthening American education.

The Center was founded in 1991 at The University of Texas at Austin. We carry out our work by supporting high standards and building system capacity, collaborating with key state and national organizations to address emerging issues, creating and delivering professional supports for educators and education leaders; and writing and publishing education resources, including student supports. Our staff of more than 60 has worked with dozens of school systems in nearly 20 states and with 90 percent of Texas's more than 1,000 school districts. We are committed to ensuring that the accident of where a child attends school does not limit the academic opportunities he or she can pursue.

For more information about our programs and resources, see our homepage at [www.utdancenter.org](http://www.utdancenter.org). To access our resources (many of them free), see our products index at [www.utdancenter.org/products](http://www.utdancenter.org/products). And to learn more about our professional development—and sign up online—go to [www.utdancenter.org/pd](http://www.utdancenter.org/pd).

<sup>\*</sup> For the high school course sequences, we relied on the Common Core State Standards Mathematics Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards, developed for the CCSS initiative by Achieve, Inc., which conceived and managed the Achieve Pathways Group.

**Acknowledgments**

Unless otherwise noted, all staff listed here are affiliated with the Dana Center.

**Project director**

Laurie Garfield, director of program and product development  
Sam Zigrone, senior advisor

**Developers and facilitators**

Pat Bridwell, senior program coordinator for leadership  
Laurie Garfield, director of program and product development  
Tom McVey, professional development team lead  
Sam Zigrone, senior advisor

**Our thanks**

We gratefully acknowledge the more than 100 school districts and thousands of educators who have informed the development of these resources.

**Editorial and production staff**

Cara Hopkins, proofreader  
Rachel Jenkins, consulting editor  
Tom McVey, professional development team lead and print production manager  
Phil Swann, senior designer

**Table of contents**

Introduction.....	1
Scoring Rubric and Documentation Forms.....	3
Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Practice.....	6
Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Content.....	14

**Introduction**

**Phase 1: Studying the Standards**

**Phase 2: Narrowing the Field of Instructional Materials**

**Phase 3: Assessing Mathematical Content Alignment**

The purpose of Phase 3: Assessing Mathematical Content Alignment is to determine the degree to which the materials are aligned to the standards (content and processes). In Phase 3, participants conduct an in-depth review of the 2-3 instructional materials selected in Phase 2. The Phase 3 process requires selection committee members to use set criteria in order to determine a rating for each sample, to cite examples to justify their score for each sample, and to document standards that are missing or not well-developed in the instructional materials examined.

**Implementation**

As a whole group, selection committee members should practice applying the Phase 3 rubric. The purpose of the whole group practice is to promote inter-rater reliability and calibration.

In Phase 3 it is not important to analyze every page, section, or chapter of a resource. It is important to identify an area, topic, or big idea for the deep content analysis of Phase 3 (e.g. development of equivalent fractions, addition of whole numbers, development of proportionality...). The identified area, topic, or big idea will be used for all the instructional materials considered in Phase 3. The area, topic, or big idea can be identified through the use of student achievement data, curriculum priorities/challenges, or ideas that typically make up a greater portion of instruction in particular grade levels courses. In most cases, Phase 3 will identify the one resource that is best aligned.

**Step-by-Step Instructions**

1. Use your current adoption to practice using the Phase 3 rubric. Select one big idea to focus your analysis (see note above for selecting the area, topic, or big idea).
2. Independently, committee members use their current resource, the identified big idea (and associated pages in that resource), and the Phase 3 rubric to score and document the extent to which the material (content and processes) aligns to the standards.
3. In small groups, committee members share their scoring and justifications. Small groups come to consensus on how the current resource would score on this big idea.
4. Each small group shares with the large group their score. Repeat the consensus building to generate a large group score on this big idea.
5. Clarify any misunderstandings about how to apply the rubric before committee members begin to use Phase 3 rubric on the selected materials.

6. Based on the size of the selection committee, determine the number of areas, topics, or big ideas to be examined for each grade/course. If the group size is large, more areas, topics, big ideas can be examined within each grade level course.
7. Make sure committee members have multiple copies of the Phase 3 rubric.
8. Committee members apply the Phase 3 rubric for each of the materials.
9. Establish a time line for groups to complete and submit Phase 3 documentation.
10. Establish a data collection and analysis process to attain a rating for each resource.

**Materials and Supplies**

- Phase 3: Assessing Mathematical Content Alignment black line master — multiple copies per person
- Currently used instructional resource
- The 2 to 4 instructional materials selected in Phase 2

**Phase 4: Assessing Vertical Alignment of Instructional Materials**

### Important Mathematical Ideas: Understanding the scoring

	1	2	3	4
Development	Important mathematical ideas are alluded to simply or are missing, approached primarily from a skill level, or provided for students outside any context.		Important mathematical ideas are evident, conceptually developed, and emerge within the context of real-world examples, interesting problems, application situations, or student investigations.	
Connections	Important mathematical ideas are developed independently of each other (i.e., they are discrete, independent ideas).		Important mathematical ideas are developed by expanding and connecting to other important mathematical ideas in such a way as to build understanding of mathematics as a unified whole.	
Rigor and Depth	Important mathematical ideas are applied in routine problems or in using formulated procedures, and are extended in separate / optional problems.		Important mathematical ideas are applied and extended in novel situations or embedded in the context, requiring the extension of important mathematical ideas and the use of multiple approaches.	

The Charles A. Dana Center

### Skills and Procedures: Understanding the scoring

	1	2	3	4
Development	Skills and procedures are the primary focus, are developed without conceptual understanding, and are loosely connected to important mathematical ideas — important mathematical ideas are adjunct.		Skills and procedures are integrated with important mathematical ideas and are presented as important tools in applying and understanding important mathematical ideas.	
Connections	Skills and procedures are treated as discrete skills rarely connected to important mathematical ideas or other skills and procedures.		Skills and procedures are integrated with—and consistently connected to—important mathematical ideas and other skills and procedures.	
Rigor and Depth	Skills and procedures are practiced without conceptual understanding outside any context, do not require the use of important mathematical ideas, and are primarily practiced in rote exercises and drill.		Skills and procedures are critical to the application and understanding of important mathematical ideas, and are embedded in problem situations.	

The Charles A. Dana Center

### Mathematical Relationships: Understanding the scoring

	1	2	3	4
Development	Mathematical relationships are not evident, and mathematics appears as a series of discrete skills and ideas.		Mathematical relationships are evident in such a way as to build understanding of mathematics as a unified whole.	
Connections	Mathematical relationships are not required of students or are used primarily to provide a context for the practice of skills or procedures — words wrapped around drill.		Mathematical relationships are integrated with important mathematical ideas, and are integral in required activities, problems, and applications.	
Rigor and Depth	Mathematical relationships require the use of skills and procedures, but rarely require the use of any important mathematical ideas or connections outside mathematics.		Mathematical relationships require the broad use of mathematics and integrate the need for important mathematical ideas, skills, and procedures, as well as connections outside mathematics.	

### Documenting Alignment to the Standards for Mathematical Practice

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

#### 1. Make sense of problems and persevere in solving them.

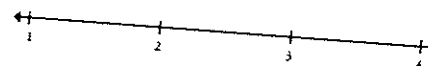
Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze given constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



## Documenting Alignment to the Standards for Mathematical Practice

2. Reason abstractly and quantitatively.

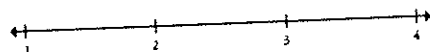
2. Reason abstractly and quantitatively: Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand, considering the units involved, attending to the meaning of quantities, not just how to compute them, and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

### Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

### Overall Rating



## Documenting Alignment to the Standards for Mathematical Practice

4. Model with mathematics.

**4. Model with mathematics.**

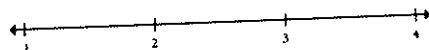
Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to plan a school event or analyze a problem in the community. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

### Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

### Overall Rating



## Documenting Alignment to the Standards for Mathematical Practice

3. Construct viable arguments and critique the reasoning of others.

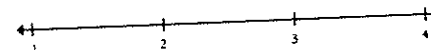
Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

**Summary/Justification/Evidence**

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

**Overall Rating**



### Documenting Alignment to the Standards for Mathematical Practice

5. Use appropriate tools strategically.

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

### Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

### Overall Rating



# Documenting Alignment to the Standards for Mathematical Practice

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## 6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



The Charles A. Dana Center

11

# Documenting Alignment to the Standards for Mathematical Practice

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## 7. Look for and make use of structure.

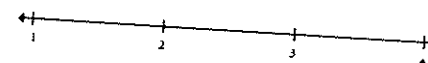
Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see  $7 \times 8$  equals the well remembered  $7 \times 5 + 7 \times 3$ , in preparation for learning about the distributive property. In the expression  $x^2 + 9x + 14$ , older students can see the 14 as  $2 \times 7$  and the 9 as  $2 + 7$ . They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see  $5 - 3(x - y)^2$  as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers  $x$  and  $y$ .

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



The Charles A. Dana Center

12

# Documenting Alignment to the Standards for Mathematical Practice

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## 8. Look for and express regularity in repeated reasoning.

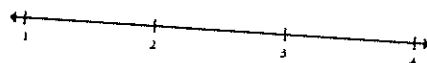
Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation  $(y - 2)/(x - 1) = 3$ . Noticing the regularity in the way terms cancel when expanding  $(x - 1)(x + 1)$ ,  $(x - 1)(x^2 + x + 1)$ , and  $(x - 1)(x^3 + x^2 + x + 1)$  might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



The Charles A. Dana Center

13

# ALGEBRA II — NUMBER AND QUANTITY (N) The Complex Number System (N-CN)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Perform arithmetic operations with complex numbers.

N-CN.1

Know there is a complex number  $i$  such that  $i^2 = -1$ , and every complex number has the form  $a + bi$  with  $a$  and  $b$  real.

Shows how  $\sqrt{-1} = i$  & how to factor out the  $i$  in  $\sqrt{-16}$ . Good job overall.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

5-5

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas

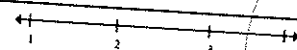
Skills and Procedures

Mathematical Relationships

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



The Charles A. Dana Center

14

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — NUMBER AND QUANTITY (N)**  
**The Complex Number System (N-CN)**

<p>Perform arithmetic operations with complex numbers.</p> <p><b>N-CN.2</b>          Use the relation <math>i^2 = -1</math> and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.          Note: <math>i</math> is the imaginary unit.</p> <p><i>Not addressed</i>          This section should immediately follow 5-5.          Indicate the chapter(s), section(s), and/or page(s) reviewed.  <i>Good</i>          5-9</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas: </p> <p>Skills and Procedures: </p> <p>Mathematical Relationships: </p> <p>Summary / Justification / Evidence: <i>otherwise.</i></p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating: </p>
--	---

15

The Charles A. Dana Center

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — NUMBER AND QUANTITY (N)**  
**The Complex Number System (N-CN)**

<p>Use complex numbers in polynomial identities and equations.</p> <p><b>N-CN.3</b>          (+) Extend polynomial identities to the complex numbers. For example, rewrite <math>x^2 + 4</math> as <math>(x + 2i)(x - 2i)</math>.          Note: Polynomials with real coefficients.</p> <p><i>factoring polynomials in <math>\mathbb{C}</math> not addressed</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.          6-4</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas: </p> <p>Skills and Procedures: </p> <p>Mathematical Relationships: </p> <p>Summary / Justification / Evidence:</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating: </p>
---	---

17

The Charles A. Dana Center

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — NUMBER AND QUANTITY (N)**  
**The Complex Number System (N-CN)**

<p>Use complex numbers in polynomial identities and equations.</p> <p><b>N-CN.7</b>          Solve quadratic equations with real coefficients that have complex solutions.          Note: Polynomials with real coefficients.</p> <p><i>Varied types of problems w/ good explanation.</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.          5-5</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas: </p> <p>Skills and Procedures: </p> <p>Mathematical Relationships: </p> <p>Summary / Justification / Evidence:</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating: </p>
---	---

16

The Charles A. Dana Center

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — NUMBER AND QUANTITY (N)**  
**The Complex Number System (N-CN)**

<p>Use complex numbers in polynomial identities and equations.</p> <p><b>N-CN.9</b>          (+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.          Note: Polynomials with real coefficients.</p> <p><i>Students not asked to explain why F.T.A. works but good challenge problems though.</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.          6-6</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas: </p> <p>Skills and Procedures: </p> <p>Mathematical Relationships: </p> <p>Summary / Justification / Evidence:</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating: </p>
---	---

18

The Charles A. Dana Center



ALGEBRA II — ALGEBRA (A)  
Seeing Structure in Expressions (A-SSE)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-SSE.1a	Important Mathematical Ideas
1. Interpret expressions that represent a quantity in terms of its context. a. Interpret parts of an expression, such as terms, factors, and coefficients. Note: Polynomial and rational.	Skills and Procedures
<i>Good chart</i>	Mathematical Relationships
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
<i>6-1</i>	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

The Charles A. Dana Center

19

ALGEBRA II — ALGEBRA (A)  
Seeing Structure in Expressions (A-SSE)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-SSE.1b	Important Mathematical Ideas
1. Interpret expressions that represent a quantity in terms of its context. b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret $P(1+r)^t$ as the product of $P$ and a factor not depending on $P$ . Note: Polynomial and rational.	Skills and Procedures
<i>Good application problems but need more like them</i>	Mathematical Relationships
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
<i>6-2</i>	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

The Charles A. Dana Center

20

ALGEBRA II — ALGEBRA (A)  
Seeing Structure in Expressions (A-SSE)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-SSE.2	Important Mathematical Ideas
Use the structure of an expression to identify ways to rewrite it. For example, see $x^2 - y^2$ as $(x^2) - (y^2)$ , thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$ . Note: Polynomial and rational.	Skills and Procedures
<i>Skill driven, not a lot of applications</i>	Mathematical Relationships
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
<i>6-4</i>	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

The Charles A. Dana Center

21

ALGEBRA II — ALGEBRA (A)  
Seeing Structure in Expressions (A-SSE)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

Write expressions in equivalent forms to solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-SSE.4	Important Mathematical Ideas
Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments.	Skills and Procedures
<i>Students are asked to outright prove Gauss' but not derivation of finite geometric series.</i>	Mathematical Relationships
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
<i>12-4 &amp; 12-5</i>	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

The Charles A. Dana Center

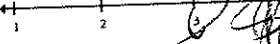
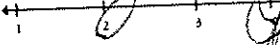

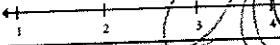
22

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

# ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

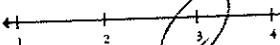
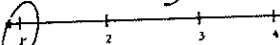


<p>Perform arithmetic operations on polynomials.</p> <p><b>A-APR.1</b> Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.</p> <p>Note: Beyond quadratic</p> <p>Good examples, great tie-in w/ Pascal's <math>\Delta</math>. No closure</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>6-1 &amp; 6-2</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	--

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

# ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

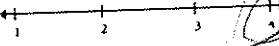

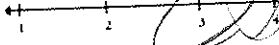
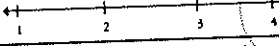
<p>Understand the relationship between zeros and factors of polynomials.</p> <p><b>A-APR.3</b> Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.</p> <p>Good use of tech &amp; hands-on solving for roots. Same comments apply to this as before. Needs more paper-pencil</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>6-5</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
---	---

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

# ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

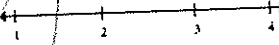
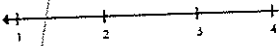

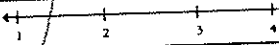
<p>Understand the relationship between zeros and factors of polynomials.</p> <p><b>A-APR.2</b> Know and apply the Remainder Theorem: For a polynomial <math>p(x)</math> and a number <math>a</math>, the remainder on division by <math>x - a</math> is <math>p(a)</math>, so <math>p(a) = 0</math> if and only if <math>(x - a)</math> is a factor of <math>p(x)</math>.</p> <p>Good discussion, but application problems need to be more realistic &amp; applicable to students.</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>6-3</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	--

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

# ALGEBRA II — ALGEBRA (A)

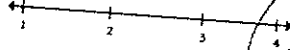
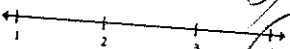
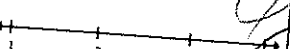
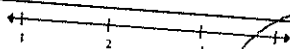
## Arithmetic with Polynomials and Rational Expressions (A-APR)

<p>Use polynomial identities to solve problems.</p> <p><b>A-APR.4</b> Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity <math>(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2</math> can be used to generate Pythagorean triples.</p> <p>Not addressed</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Ch 6</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	---

ALGEBRA II — ALGEBRA (A)  
Creating Equations (A-CED)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

<p>Create equations that describe numbers or relationships.</p> <p><b>A-CED.2</b> Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. Note: Equations using all available types of expressions, including simple root functions.</p> <p><i>Good opener, use of tech &amp; real-world applications. A nice batch of word problems, too.</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><b>2-5</b></p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
---	---

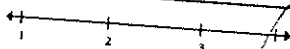
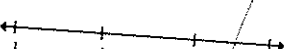

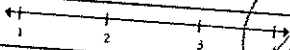
The Charles A. Dana Center

31

ALGEBRA II — ALGEBRA (A)  
Creating Equations (A-CED)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

<p>Create equations that describe numbers or relationships.</p> <p><b>A-CED.3</b> Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods. Note: Equations using all available types of expressions, including simple root functions.</p> <p><i>ibid</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><b>2-5 &amp; 3-6</b></p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	--

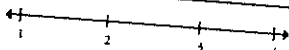
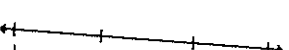

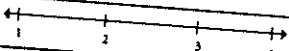
The Charles A. Dana Center

32

ALGEBRA II — ALGEBRA (A)  
Creating Equations (A-CED)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

<p>Create equations that describe numbers or relationships.</p> <p><b>A-CED.4</b> Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law <math>V = IR</math> to highlight resistance <math>R</math>. Note: Equations using all available types of expressions, including simple root functions.</p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	---

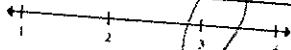

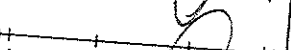
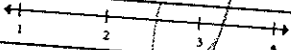
The Charles A. Dana Center

33

ALGEBRA II — ALGEBRA (A)  
Reasoning with Equations and Inequalities (A-REI)

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

<p>Understand solving equations as a process of reasoning and explain the reasoning.</p> <p><b>A-REI.2</b> Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise. Note: Simple radical and rational.</p> <p><i>Good development of how to solve &amp; why extraneous solns are a problem.</i></p> <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p><b>8-5</b></p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
--	--

The Charles A. Dana Center

34

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

Use polynomial identities to solve problems.

## A-APR.5

(\*) Know and apply the Binomial Theorem for the expansion of  $(x + y)^n$  in powers of  $x$  and  $y$  for a positive integer  $n$ , where  $x$  and  $y$  are any numbers, with coefficients determined for example by Pascal's Triangle.<sup>1</sup>

Good.

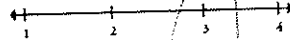
<sup>1</sup> The Binomial Theorem can be proved by mathematical induction or by a combinatorial argument.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

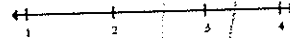
11-6

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

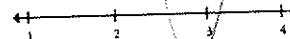
Important Mathematical Ideas



Skills and Procedures



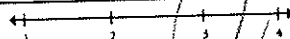
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



The Charles A. Dana Center

27

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

Rewrite rational expressions.

## A-APR.7

(\*) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.

Note: Linear and quadratic denominators.

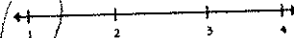
For being skill-heavy sections, good applications, but does not show how  $(Q, +, \cdot)$  is closed.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

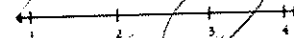
8-2 &amp; 8-3

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures



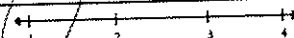
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



The Charles A. Dana Center

29

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — ALGEBRA (A)

## Arithmetic with Polynomials and Rational Expressions (A-APR)

Rewrite rational expressions.

## A-APR.6

Rewrite simple rational expressions in different forms; write  $a(x)/b(x)$  in the form  $q(x) + r(x)/b(x)$ , where  $a(x)$ ,  $b(x)$ ,  $q(x)$ , and  $r(x)$  are polynomials with the degree of  $r(x)$  less than the degree of  $b(x)$ , using inspection, long division, or, for the more complicated examples, a computer algebra system.

Note: Linear and quadratic denominators.

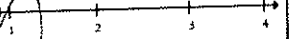
Not addressed

Indicate the chapter(s), section(s), and/or page(s) reviewed.

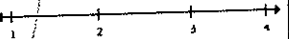
8-2 — 8-4

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

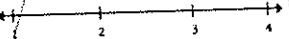
Important Mathematical Ideas



Skills and Procedures



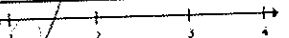
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



The Charles A. Dana Center

28

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — ALGEBRA (A)

## Creating Equations (A-CED)

Create equations that describe numbers or relationships.

## A-CED.1

Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

Note: Equations using all available types of expressions, including simple root functions.

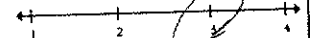
Good problems & topics just need more applications!

Indicate the chapter(s), section(s), and/or page(s) reviewed.

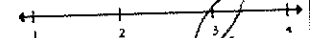
2-4

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures



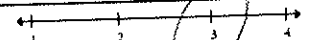
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



The Charles A. Dana Center

30

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: Holt McDougal Alg II

## Documenting Alignment to the Standards for Mathematical Practice

### 1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

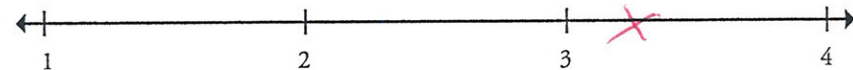
Ch. 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

From the "Think and Discuss", problem solving strategy used, and a "check" at the end of every example students are led to persevere in solving and making sense of problems.

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

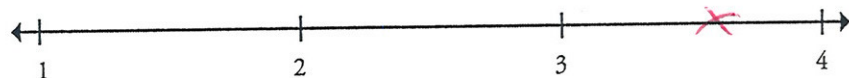
Ch. 5-8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Then the "Think and discuss" and high frequency of story problems and "write about it" problems students attend to the meaning of quantities

Overall Rating





Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

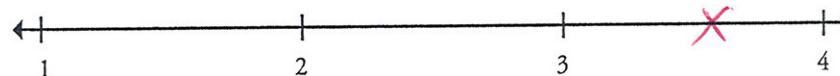
Ch. 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Through the "Think and discuss" feature and the "what if" problems, students construct and critique reasoning.

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

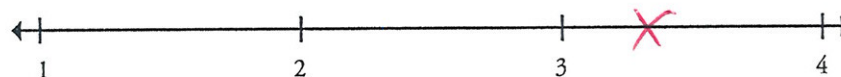
Ch. 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

From "Connecting Algebra to ..." and the labs, students interpret results and reflect on meaning and sense of results

Overall Rating





Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

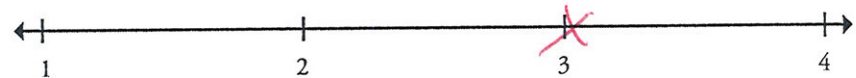
Ch 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Thru the labs and "Connect Algebra to..."  
Students use appropriate tools to explore and deepen  
their understanding of concepts

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch 5-8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Thru the "Think and discuss" feature and thru the "check" at the end of every example, ~~stating~~ attending to precision is embedded in the text.

Overall Rating



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see  $7 \times 8$  equals the well remembered  $7 \times 5 + 7 \times 3$ , in preparation for learning about the distributive property. In the expression  $x^2 + 9x + 14$ , older students can see the 14 as  $2 \times 7$  and the 9 as  $2 + 7$ . They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see  $5 - 3(x - y)^2$  as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers  $x$  and  $y$ .

Indicate the chapter(s), section(s), or page(s) reviewed.

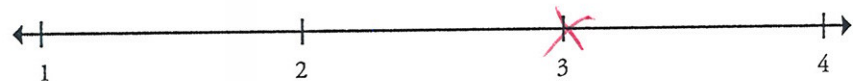
Ch. 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Thru the labs and Connections students look for patterns or structure along with the "Think and Discuss" feature.

Overall Rating





Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## Documenting Alignment to the Standards for Mathematical Practice

### 8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation  $(y - 2)/(x - 1) = 3$ . Noticing the regularity in the way terms cancel when expanding  $(x - 1)(x + 1)$ ,  $(x - 1)(x^2 + x + 1)$ , and  $(x - 1)(x^3 + x^2 + x + 1)$  might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

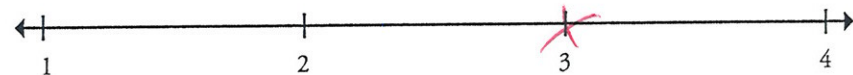
Ch. 5 - 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

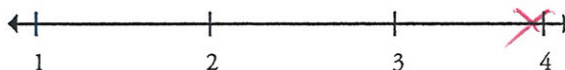
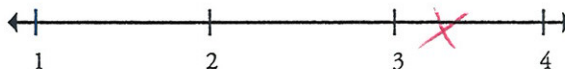
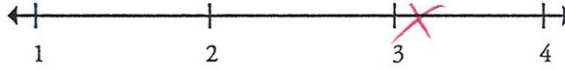
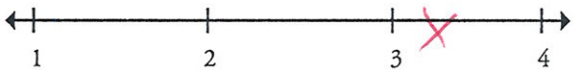
Then the use of "Helpful Hints" students are encouraged to look for ~~repetition~~ repetition and shortcuts. Then the Problem Solving Strategy students evaluate intermediate results.

Overall Rating



---

## The Complex Number System (N-CN)

<b>Perform arithmetic operations with complex numbers.</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>N-CN.1</b> Know there is a complex number $i$ such that $i^2 = -1$ , and every complex number has the form $a + bi$ with $a$ and $b$ real.	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence  <i>Well presented thru "Know it Notes" and vocabulary</i> </p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.  <i>Sect 5.5</i>	Overall Rating 

Title of Instructional Materials: \_\_\_\_\_

### The Complex Number System (N-CN)

---

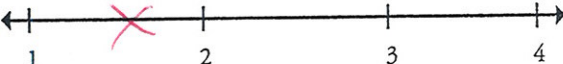

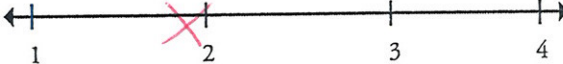
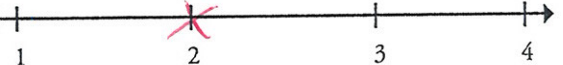
Title of Instructional Materials: \_\_\_\_\_

## The Complex Number System (N-CN)

The Charles A. Dana Center

Reviewed By: \_\_\_\_\_

## ALGEBRA II — NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<p>N-CN.8</p> <p>(+) Extend polynomial identities to the complex numbers. <i>For example, rewrite <math>x^2 + 4</math> as <math>(x + 2i)(x - 2i)</math>.</i></p> <p>Note: Polynomials with real coefficients.</p>         <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Sect 6.6</p>	<div>Important Mathematical Ideas </div> <div>Skills and Procedures </div> <div>Mathematical Relationships </div> <div> <p>Summary / Justification / Evidence</p> <p><del>Developed well through problem solving, practice and discovery, and</del></p> <p><del>relationships</del> Not developed well, only one example</p> </div> <div>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</div>
	<div>Overall Rating </div>



Title of Instructional Materials:

### The Complex Number System (N-CN)

The Charles A. Dana Center

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

### Building Functions (F-BF)

Build a function that models a relationship between two quantities.

#### F-BF.1b

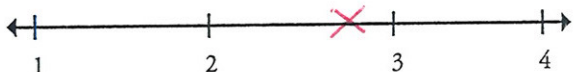
1. Write a function that describes a relationship between two quantities.\*
  - b. Combine standard function types using arithmetic operations. *For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.*

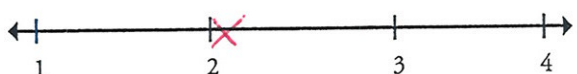
Note: Include all types of functions studied.


Indicate the chapter(s), section(s), and/or page(s) reviewed.

*Chapter 7*

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas 


Skills and Procedures 

Mathematical Relationships 

Summary / Justification / Evidence

*Developed adequately and used in applications*

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating 

---

---

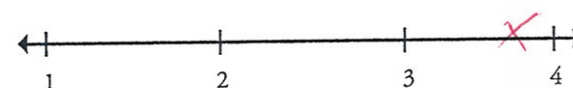
### Building Functions (F-BF)

F-BF.3

Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.

Sect 5.1, 6.8

### Important Mathematical Ideas



A horizontal number line with arrows at both ends. It has tick marks labeled 1, 2, 3, and 4. A red 'X' is drawn over the tick mark for 3.

A horizontal number line with arrows at both ends. It has four major tick marks labeled 1, 2, 3, and 4 from left to right. A red 'X' is drawn over the tick mark for the number 3.

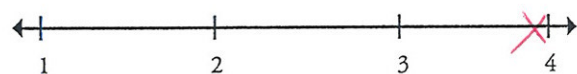
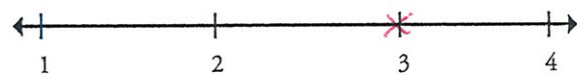
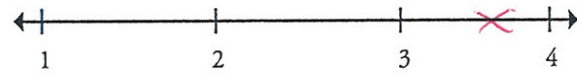
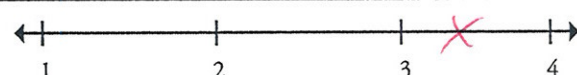
Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

even/odd functions essentially excluded, only one minor mention very late in the text.

A horizontal number line with arrows at both ends. It has tick marks labeled 1, 2, 3, and 4. A red 'X' is drawn above the tick mark for 3.

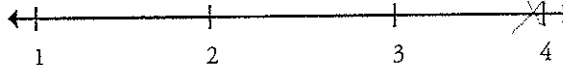
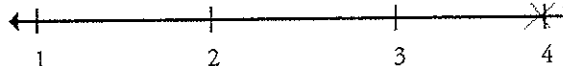
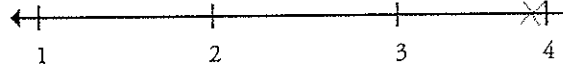

Title of Instructional Materials: \_\_\_\_\_

### Building Functions (F-BF)

<b>Build new functions from existing functions.</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<b>F-BF.4a</b> 4. Find inverse functions. a. Solve an equation of the form $f(x) = c$ for a simple function $f$ that has an inverse and write an expression for the inverse. <i>For example, <math>f(x) = 2x^3</math> or <math>f(x) = (x+1)/(x-1)</math> for <math>x \neq 1</math>.</i>  <i>Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary / Justification / Evidence</b>  <i>explicit examples, applications, technology lab and making conjectures</i> </p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p>
<b>Indicate the chapter(s), section(s), and/or page(s) reviewed.</b>  <i>Chapter 7, 9</i>	<b>Overall Rating</b> 

Title of Instructional Materials: \_\_\_\_\_

## Linear, Quadratic, and Exponential Models (F-LE)




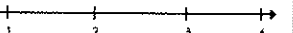
<p><b>Construct and compare linear, quadratic, and exponential models and solve problems.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p><b>F-LE.4</b></p> <p>For exponential models, express as a logarithm the solution to <math>ab^cd = d</math> where <math>a</math>, <math>c</math>, and <math>d</math> are numbers and the base <math>b</math> is 2, 10, or <math>e</math>; evaluate the logarithm using technology.*</p> <p>Note: Logarithms as solutions for exponentials.</p>        <p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p> <p>Ch. 7</p>	<div>Important Mathematical Ideas </div> <div>Skills and Procedures </div> <div>Mathematical Relationships </div> <div> <p><b>Summary / Justification / Evidence</b></p> <p>All are met well w/ tabs, connections, error analysis, and examples</p> </div>
	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p>        <div>Overall Rating </div>

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — ALGEBRA (A)

## Reasoning with Equations and Inequalities (A-REI)

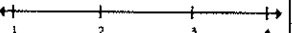
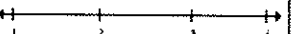
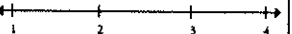
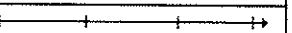
Represent and solve equations and inequalities graphically.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>A-REI.11</b> Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$ ; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.* <i>Note: Combine polynomial, rational, radical, absolute value, and exponential functions.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Interpreting Functions (F-IF)

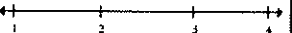

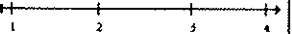
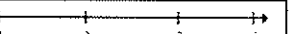
Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.5</b> Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function $h(t)$ gives the number of person-hours it takes to assemble $n$ engines in a factory, then the positive integers would be an appropriate domain for the function.* <i>Note: Emphasize selection of appropriate models.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Interpreting Functions (F-IF)

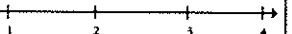
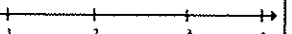
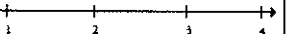
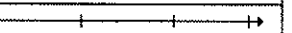
Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.4</b> For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts, intervals where the function is increasing, decreasing, positive, or negative, relative maximums and minimums, symmetries, end behavior, and periodicity.* <i>Note: Include rational, square root and cube root, emphasize selection of appropriate models.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)



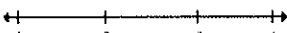
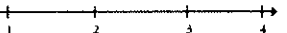
## Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.8</b> Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.* <i>Note: Emphasize selection of appropriate models.</i>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

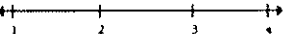
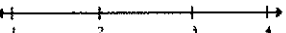

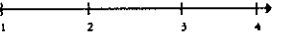
**ALGEBRA II — FUNCTIONS (F)****Interpreting Functions (F-IF)**

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.7b</b>	<b>Important Mathematical Ideas</b> 
7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. <sup>a</sup>	
b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	<b>Skills and Procedures</b> 
Note: Focus on using key features to guide selection of appropriate type of model function.	
	<b>Mathematical Relationships</b> 
	<b>Summary / Justification / Evidence</b>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>
	<b>Overall Rating</b> 

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

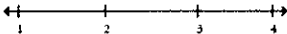
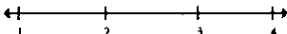
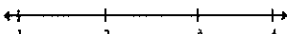
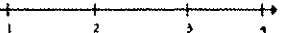
**ALGEBRA II — FUNCTIONS (F)****Interpreting Functions (F-IF)**

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.7c</b>	<b>Important Mathematical Ideas</b> 
7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. <sup>a</sup>	
c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	<b>Skills and Procedures</b> 
Note: Focus on using key features to guide selection of appropriate type of model function.	
	<b>Mathematical Relationships</b> 
	<b>Summary / Justification / Evidence</b>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>
	<b>Overall Rating</b> 

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

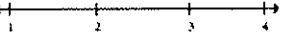

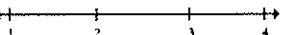
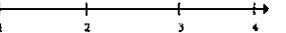
**ALGEBRA II — FUNCTIONS (F)****Interpreting Functions (F-IF)**

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.7e</b>	<b>Important Mathematical Ideas</b> 
7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. <sup>a</sup>	
e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.	<b>Skills and Procedures</b> 
Note: Focus on using key features to guide selection of appropriate type of model function.	
	<b>Mathematical Relationships</b> 
	<b>Summary / Justification / Evidence</b>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>
	<b>Overall Rating</b> 

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — FUNCTIONS (F)****Interpreting Functions (F-IF)**

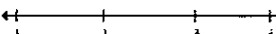
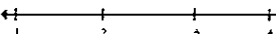


Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
<b>F-IF.8a</b>	<b>Important Mathematical Ideas</b> 
8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	
a. Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	<b>Skills and Procedures</b> 
Note: Focus on using key features to guide selection of appropriate type of model function.	
	<b>Mathematical Relationships</b> 
	<b>Summary / Justification / Evidence</b>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>
	<b>Overall Rating</b> 

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Interpreting Functions (F-IF)

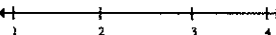
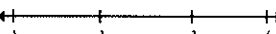
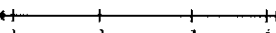
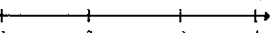
Analyze functions using different representations. <b>F-IF.8b</b> 8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)^x$ , $y = (0.97)^x$ , $y = (1.01)^{5x}$ , $y = (1.2)^{x/10}$ , and classify them as representing exponential growth or decay. <i>Note: Focus on using key features to guide selection of appropriate type of model function.</i>	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. <b>Important Mathematical Ideas</b>  <b>Skills and Procedures</b>  <b>Mathematical Relationships</b>  <b>Summary / Justification / Evidence</b>  <b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>  <b>Overall Rating</b> 
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Building Functions (F-BF)

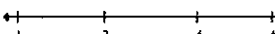

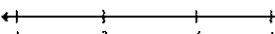
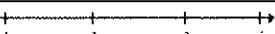
Build a function that models a relationship between two quantities. <b>F-BF.1b</b> 1. Write a function that describes a relationship between two quantities.* b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model. <i>Note: Include all types of functions studied.</i>	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. <b>Important Mathematical Ideas</b>  <b>Skills and Procedures</b>  <b>Mathematical Relationships</b>  <b>Summary / Justification / Evidence</b>  <b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>  <b>Overall Rating</b> 
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Interpreting Functions (F-IF)

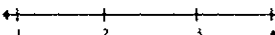


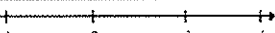
Analyze functions using different representations. <b>F-IF.3</b> Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum. <i>Note: Focus on using key features to guide selection of appropriate type of model function.</i>	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. <b>Important Mathematical Ideas</b>  <b>Skills and Procedures</b>  <b>Mathematical Relationships</b>  <b>Summary / Justification / Evidence</b>  <b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>  <b>Overall Rating</b> 
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Building Functions (F-BF)

Build new functions from existing functions. <b>F-BF.3</b> Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$ , $k f(x)$ , $f(kx)$ , and $f(x + k)$ for specific values of $k$ (both positive and negative); find the value of $k$ given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. <i>Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.</i>	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. <b>Important Mathematical Ideas</b>  <b>Skills and Procedures</b>  <b>Mathematical Relationships</b>  <b>Summary / Justification / Evidence</b>  <b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>  <b>Overall Rating</b> 
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

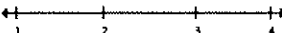
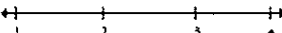
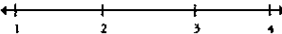



Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Building Functions (F-BF)

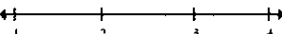
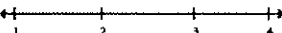
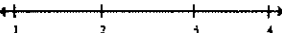
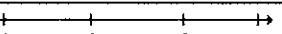
Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-BF.4a	
4. Find inverse functions. a. Solve an equation of the form $f(x) = c$ for a simple function $f$ that has an inverse and write an expression for the inverse. For example, $f(x) = 2x^2$ or $f(x) = (x+1)/(x-1)$ for $x \neq 1$ .  Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

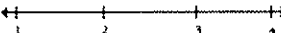
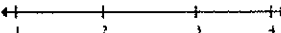
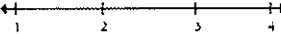
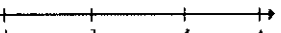
## ALGEBRA II — FUNCTIONS (F)

## Trigonometric Functions (F-TF)

Extend the domain of trigonometric functions using the unit circle.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-TF.1	
Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

## ALGEBRA II — FUNCTIONS (F)

## Linear, Quadratic, and Exponential Models (F-LE)


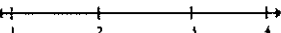
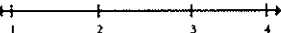
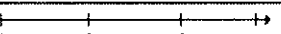
Construct and compare linear, quadratic, and exponential models and solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-LE.4	
For exponential models, express as a logarithm the solution to $ab^t = d$ where $a$ , $c$ , and $d$ are numbers and the base $b$ is 2, 10, or $e$ ; evaluate the logarithm using technology.*  Note: Logarithms as solutions for exponentials.	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Trigonometric Functions (F-TF)

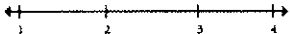
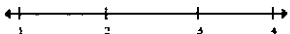
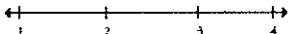
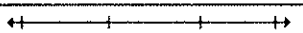
Extend the domain of trigonometric functions using the unit circle.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-TF.2	
Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
Indicate the chapter(s), section(s), and/or page(s) reviewed.	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Trigonometric Functions (F-TF)

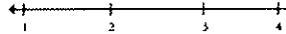
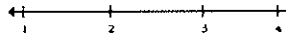
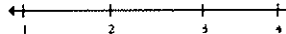
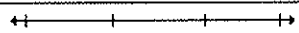
<p><b>Model periodic phenomena with trigonometric functions.</b></p> <p><b>F-TF.6</b> Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline."</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — FUNCTIONS (F)

## Trigonometric Functions (F-TF)

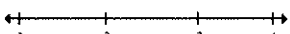
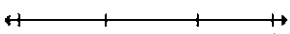
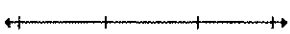
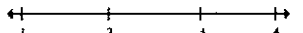
<p><b>Prove and apply trigonometric identities.</b></p> <p><b>F-TF.8</b> Prove the Pythagorean identity <math>\sin^2(\theta) + \cos^2(\theta) = 1</math> and use it to find <math>\sin(\theta)</math>, <math>\cos(\theta)</math>, or <math>\tan(\theta)</math> given <math>\sin(\theta)</math>, <math>\cos(\theta)</math>, or <math>\tan(\theta)</math> and the quadrant of the angle.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

## Interpreting Categorical and Quantitative Data (S-ID)

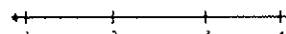
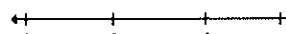
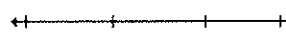
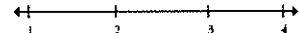
<p><b>Summarize, represent, and interpret data on a single count or measurement variable.</b></p> <p><b>S-ID.4</b> Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

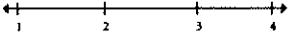

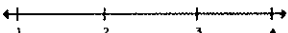
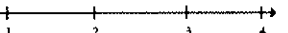
## Making Inferences and Justifying Conclusions (S-IC)

<p><b>Understand and evaluate random processes underlying statistical experiments.</b></p> <p><b>S-IC.1</b> Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p> <p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p>Summary / Justification / Evidence</p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p> <p>Overall Rating </p>
<p>Indicate the chapter(s), section(s), and/or page(s) reviewed.</p>	

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — STATISTICS AND PROBABILITY (S)****Making Inferences and Justifying Conclusions (S-IC)**

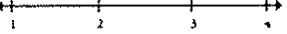
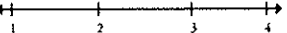
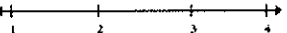

<p><b>Understand and evaluate random processes underlying statistical experiments.</b></p> <p><b>S-IC.2</b> Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?</p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p> <p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>
---	---

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Reviewed By: \_\_\_\_\_

Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — STATISTICS AND PROBABILITY (S)****Making Inferences and Justifying Conclusions (S-IC)**

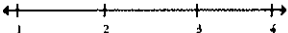
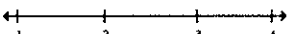
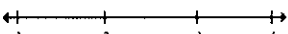
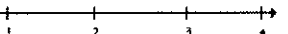
<p><b>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</b></p> <p><b>S-IC.3</b> Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.</p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p> <p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>
--	---

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Reviewed By: \_\_\_\_\_

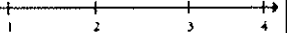
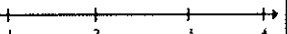
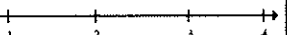
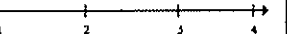
Title of Instructional Materials: \_\_\_\_\_

**ALGEBRA II — STATISTICS AND PROBABILITY (S)****Making Inferences and Justifying Conclusions (S-IC)**

<p><b>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</b></p> <p><b>S-IC.4</b> Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.</p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p> <p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>
--	--

Indicate the chapter(s), section(s), and/or page(s) reviewed.

**ALGEBRA II — STATISTICS AND PROBABILITY (S)****Making Inferences and Justifying Conclusions (S-IC)**

<p><b>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</b></p> <p><b>S-IC.6</b> Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.</p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p> <p><b>Important Mathematical Ideas</b> </p> <p><b>Skills and Procedures</b> </p> <p><b>Mathematical Relationships</b> </p> <p><b>Summary / Justification / Evidence</b></p> <p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p> <p><b>Overall Rating</b> </p>
---	--

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Reviewed By:

Title of Instructional Materials:

RA II - STATISTICS AND PROBABILITY (8)

### **Making Inferences and Justifying Conclusions (8-1C)**

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

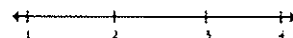
S-1C.5

Evaluate reports based on data.

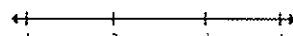
Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

### Important Mathematical Ideas



### Skills and Procedures



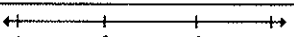
### Mathematical Relationships



**Summary / Justification / Evidence**

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



Reviewed By:

Title of Instructional Materials:

## ALGEBRA II — STATISTICS AND PROBABILITY (S)

### Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions

3-140.7

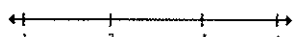
(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).

Now include more complex situations.

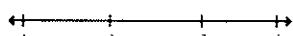
Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

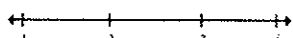
### Important Mathematical Ideas



### Skills and Procedures



### Mathematical Relationships



### Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating

